

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number  
**WO 2004/003231 A3**

(51) International Patent Classification<sup>7</sup>: **C12Q 1/68**,  
G01N 33/543, C12N 15/10, B03C 1/01, B01D 15/00

(21) International Application Number:  
PCT/IB2003/002994

(22) International Filing Date: 1 July 2003 (01.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0215185.0 1 July 2002 (01.07.2002) GB

(71) Applicant (for all designated States except US): **PARTICLE SOLUTION AS** [NO/NO]; Rickard Birkelandsvei 2B, N-7491 Trondheim (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KILAAS, Lars** [NO/NO]; Skansegaten 17C, N-7014 Trondheim (NO). **DYRLI, Anne, Dalager** [NO/NO]; Skansegaten 17C, N-7014 Trondheim (NO). **SKAGESTAD, Vidar** [NO/NO]; Kitty Kiellandsvei 15G, N-1344 Haslum (NO).

(74) Common Representative: **PARTICLE SOLUTION AS**; c/o Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
11 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **REMANENT MAGNETIC PARTICLES CAPABLE OF BINDING A TARGET SUBSTANCE, THEIR PRODUCTION AND USES THEREOF**

(57) Abstract: Magnetic particles capable of binding a target substance, which comprise a magnetic material and a matrix material, wherein the magnetic material is remanent upon exposure to a magnetic field and the matrix material has a surface comprising functional groups which promote disaggregation of the particles in the presence of a liquid phase.

WO 2004/003231 A3